

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3704	428/421.ccls. or 428/422.ccls.	US-PGPUB; USPAT	OR	OFF	2009/08/11 15:56
L2	149842	electrolyte or polyelectrolyte	US-PGPUB; USPAT	OR	ON	2009/08/11 15:57
L3	168	1 and 2	US-PGPUB; USPAT	OR	ON	2009/08/11 15:57
S1	1	"20070265174".pn.	US-PGPUB; USPAT	OR	OFF	2009/01/30 19:11
S2	24	"3467604".pn. or "4169023".pn. or "4501835".pn. or "4654235". pn. or "5208111".pn. or "5711915".pn. or "5807636".pn. or "5939323".pn. or "6402918". pn. or "6468657".pn. or "6610789".pn. or "6841054".pn. or "6860980".pn. or "7101947". pn. or "20030078388".pn. or "20030215626".pn. or "20040022691".pn. or "20040060481".pn. or "20040084312".PN. OR "20040149572".PN. OR "20040265603".PN. OR "20050025675".PN. OR "20050282925".PN. OR "20060065529".PN.	US-PGPUB; USPAT	OR	OFF	2009/02/03 15:05
S3	25818	((electrolyte or polyelectrolyte) and (fluoro or fluorine or tetrafluoroethylene or TFE or perfluoro\$))	US-PGPUB; USPAT	OR	OFF	2009/02/03 15:58
S4	375	((electrolyte or polyelectrolyte) and (fluoro or fluorine or tetrafluoroethylene or TFE or perfluoro\$)).ab.	US-PGPUB; USPAT	OR	OFF	2009/02/03 15:58
S5	30	((JOSEPH) near2 (SCHLENOFF)). INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/03 15:59
S6	6	((JOSEPH) near2 (SCHLENOFF)). INV.	EPO; JPO; DERWENT	OR	OFF	2009/02/03 15:59
S7	19	S5 not S2	US-PGPUB; USPAT; USOCR	OR	OFF	2009/02/03 16:00
S8	11	S5 not S7	US-PGPUB; USPAT	OR	OFF	2009/02/03 16:07
S9	1	"20060286424".pn.	DERWENT	OR	OFF	2009/02/03 16:25

S10	64	((electrolyte or polyelectrolyte) and (fluoro or fluorine or tetrafluoroethylene or TFE or perfluoro\$)).ab. and (charg\$ or positive\$ or negative\$ or opposite\$).ab.	US-PGPUB; USPAT	OR	OFF	2009/02/04 10:50
S11	554	(electrolyte or polyelectrolyte).ab. and ((fluoro or fluorine or tetrafluoroethylene or TFE or perfluoro\$) and (charg\$ or positive\$ or negative\$ or opposite\$)).clm.	US-PGPUB; USPAT	OR	OFF	2009/02/04 10:56
S12	52	((fluoro or fluorin\$) and charg\$ and polymer).ab.	US-PGPUB; USPAT	OR	OFF	2009/02/04 13:33
S13	2	((fluoro or fluorin\$) and charg\$ and polyelectrolyte).ab.	US-PGPUB; USPAT	OR	OFF	2009/02/04 13:44
S14	1	"20050287111".pn.	US-PGPUB; USPAT	OR	OFF	2009/02/06 12:54
S15	3	pfpvp	US-PGPUB; USPAT	OR	OFF	2009/02/06 13:53
S16	1798	(fluoropyrid\$ or fluorinated or fluorine or fluorin\$) near9 (pyridin\$5)	US-PGPUB; USPAT	OR	OFF	2009/02/06 13:57
S17	8447	polyelectrolyte	US-PGPUB; USPAT	OR	OFF	2009/02/06 13:57
S18	30	S16 and S17	US-PGPUB; USPAT	OR	OFF	2009/02/06 13:58
S19	3625	428/421.ccls. or 428/422.ccls.	US-PGPUB; USPAT	OR	OFF	2009/02/06 14:16
S20	121794	electrolyte or polyelectrolyte	US-PGPUB; USPAT	OR	OFF	2009/02/06 14:17
S21	135	S19 and S20	US-PGPUB; USPAT	OR	OFF	2009/02/06 14:17
S22	3619333	(electrolyte or polyelectrolyte or charge\$ or positive\$ or negative\$ or opposit\$)	US-PGPUB; USPAT	OR	OFF	2009/02/06 14:19
S23	1753	S19 and S22	US-PGPUB; USPAT	OR	OFF	2009/02/06 14:19
S24	45483	(electrolyte or polyelectrolyte) and charge\$ and (positive\$ or negative\$ or opposit\$)	US-PGPUB; USPAT	OR	OFF	2009/02/06 14:20
S25	40	S19 and S24	US-PGPUB; USPAT	OR	OFF	2009/02/06 14:20
S26	1	"20070265174".pn.	US-PGPUB; USPAT	OR	OFF	2009/02/06 15:42
S27	2501639	friction or rotating or moving or particle	US-PGPUB; USPAT	OR	OFF	2009/02/06 15:43
S28	1	S26 and S27	US-PGPUB; USPAT	OR	OFF	2009/02/06 15:44
S29	1	"20020086932".pn.	US-PGPUB; USPAT	OR	OFF	2009/02/06 16:19
S30	109	(fluorin\$ near5 pyridinium)	US-PGPUB; USPAT	OR	OFF	2009/02/06 17:15

S31	2	(pyridinium and polyelectrolyte).ab.	US-PGPUB; USPAT	OR	OFF	2009/02/06 17:59
S32	13	(pyridinium and (electrolyte or polyelectrolyte)).ab.	US-PGPUB; USPAT	OR	OFF	2009/02/06 18:01
S33	479	(pyridinium same (electrolyte or polyelectrolyte))	US-PGPUB; USPAT	OR	OFF	2009/02/06 18:03
S34	334503	(Fluoro or fluorin\$)	US-PGPUB; USPAT	OR	OFF	2009/02/06 18:16
S35	239	S33 and S34	US-PGPUB; USPAT	OR	OFF	2009/02/06 18:16
S36	1	"20040265603".pn.	DERWENT	OR	OFF	2009/02/06 18:22
S37	0	(magnetic adj disc).ab. and (polyelectrolyte).ab.	US-PGPUB; USPAT	OR	OFF	2009/02/06 19:41
S38	1005	(magnetic adj disc).ab.	US-PGPUB; USPAT	OR	OFF	2009/02/06 19:42
S39	868	(magnetic adj disc).ab.	USPAT	OR	OFF	2009/02/06 19:42
S40	9	(magnetic adj disc).ab. and coating.ab.	USPAT	OR	OFF	2009/02/06 19:45
S41	3	(magnetic adj disc).ab. and (coated or coating).ab. and method.ab.	USPAT	OR	OFF	2009/02/06 19:46
S42	113	(magnetic adj disc).ab. and method.ab.	USPAT	OR	OFF	2009/02/06 19:49
S43	324	(polytetrafluoroethylene same charg\$ same particle)	US-PGPUB; USPAT	OR	OFF	2009/02/06 20:30
S44	45	(polytetrafluoroethylene same charg\$ same particle) and (fluorin \$ near8 polymer)	US-PGPUB; USPAT	OR	OFF	2009/02/06 20:46
S45	1104724	film	US-PGPUB; USPAT	OR	OFF	2009/02/06 21:12
S46	33	S44 and S45	US-PGPUB; USPAT	OR	OFF	2009/02/06 21:12
S47	1	"20080177002".pn.	US-PGPUB; USPAT	OR	OFF	2009/02/06 21:48
S48	578	Zonyl and fluorosurfactant and polymer\$	US-PGPUB; USPAT	OR	OFF	2009/02/09 08:52
S49	113	Zonyl same fluorosurfactant same polymer\$	US-PGPUB; USPAT	OR	OFF	2009/02/09 08:52
S50	1	"5380644".pn.	US-PGPUB; USPAT	OR	OFF	2009/02/09 09:01
S51	163	(moving near5 metal) same (fluoro or fluorin\$ or electrolyte or polyelectrolyte)	US-PGPUB; USPAT	OR	OFF	2009/02/09 09:28
S52	19949	"508"/\$7.ccls.	US-PGPUB; USPAT	OR	OFF	2009/02/09 09:48
S53	433289	(fluoro or fluorin\$ or electrolyte or polyelectrolyte)	US-PGPUB; USPAT	OR	OFF	2009/02/09 09:48
S54	1822	S52 and S53	US-PGPUB; USPAT	OR	OFF	2009/02/09 09:49

S55	46367	(fluoro or fluorin\$ or electrolyte or polyelectrolyte).ab.	US-PGPUB; USPAT	OR	OFF	2009/02/09 09:49
S56	220	S52 and S55	US-PGPUB; USPAT	OR	OFF	2009/02/09 09:49
S57	2105927	metal	US-PGPUB; USPAT	OR	OFF	2009/02/09 10:27
S58	2258287	metal or metallic	US-PGPUB; USPAT	OR	OFF	2009/02/09 10:27
S59	175	S56 and S58	US-PGPUB; USPAT	OR	OFF	2009/02/09 10:27
S60	3578254	(charge\$ or positive\$ or negative\$ or opposite\$)	US-PGPUB; USPAT	OR	ON	2009/02/09 10:35
S61	97	S59 and S60	US-PGPUB; USPAT	OR	ON	2009/02/09 10:36
S62	1	"4497720".pn.	US-PGPUB; USPAT	OR	ON	2009/02/09 11:31
S63	924949	particle	US-PGPUB; USPAT	OR	ON	2009/02/09 11:31
S64	0	S62 and S63	US-PGPUB; USPAT	OR	ON	2009/02/09 11:31
S65	1	WO-03014234-\$.DID.	DERWENT	OR	ON	2009/02/09 11:40
S66	974	525/199.ccls. or 525/200.ccls.	US-PGPUB; USPAT; DERWENT	OR	ON	2009/02/09 11:53
S67	430	S60 and S66	US-PGPUB; USPAT	OR	ON	2009/02/09 11:54
S68	424274	(charge\$ or positive\$ or negative\$ or opposite\$).ab.	US-PGPUB; USPAT	OR	ON	2009/02/09 11:55
S69	16	S67 and S68	US-PGPUB; USPAT	OR	ON	2009/02/09 11:55
S70	1	"20030169227".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/08 11:57
S71	1389161	film	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/08 11:57
S72	1	S70 and S71	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/08 11:58
S73	1	"20070265174".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/08 13:06
S74	95373	(charged or charge) near9 particle	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/08 13:07
S75	1	S73 and S74	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/08 13:07
S76	8051	PDADMA or PFPVP or nafion	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/08 14:29
S77	7512	(PDADMA or PFPVP or nafion) and (electrolyte or polyelectrolyte or charge or charged or polymer)	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/08 14:30
S78	1142	525/199.ccls. or 525/200.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/08 14:30
S79	8	S77 and S78	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/08 14:30

S80	1142	525/199.ccls. or 525/200.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/10 09:55
S81	173840	electrolyte or polyelectrolyte	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/10 09:55
S82	55	S80 and S81	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/10 09:55
S83	877332	(anionic\$ or cationic\$ or ioniz\$ or ionic\$ or cationiz\$ od anioniz\$)	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/10 10:37
S84	324	S80 and S83	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/10 10:37
S85	5811	(pyridinium or ammonium) near9 (fluorinat\$ or fluorine\$)	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/10 10:43
S86	21	S80 and S85	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/10 10:43
S87	5820	(pyridinium or ammonium or polycation\$ or polyanion\$) near9 (fluorinat\$ or fluorine\$)	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/10 10:46
S88	21	S80 and S87	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/10 10:47
S89	13	(polycation\$ or polyanion\$) near9 (fluorinat\$ or fluorine\$)	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/10 10:48
S90	11286	(polycation\$ or cation\$ or ionic\$ or ioniz\$ or pyridinium or ammonium) near9 (fluorinat\$ or fluorine\$)	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/10 10:51
S91	505129	"525"/\$7.ccls. or "524"/\$7.ccls. or "428"/\$7.ccls. or "526"/\$7.ccls. or "528"/\$7.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/10 10:52
S92	2522	S90 and S91	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/10 10:53
S93	8232	(polycation\$ or cation\$ or ionic\$ or ioniz\$ or pyridinium or ammonium) near5 (fluorinat\$ or fluorine\$)	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/10 10:53
S94	1850	S91 and S93	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/10 10:53
S95	2	"6358665".pn. or "5608022".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/10 17:02
S96	199	(anion\$ near3 exchang\$) near9 fluorin\$	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/10 17:03
S97	1	"20070265174".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/10 18:14
S98	1	"4316789".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/10 18:17
S99	1	"5187038".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/10 18:58
S100	249006	fluorine	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/10 19:03
S101	0	S99 and S100	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/10 19:03
S102	1	"5736274".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/10 19:07

S103	1	"7357999".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/10 19:51
S104	18516	attapulgate	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/10 19:51
S105	0	S103 and S104	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/10 19:51

**8/ 11/ 2009 4:01:33 PM****C:\ Documents and Settings\ ikrylova\ My Documents\ EAST\ Workspaces\ 10594185.wsp**